



## 業績目録(倉本義夫)

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倉本 義夫 教授 業績目録

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# 物理学専攻

## 倉本 義夫

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教授

大学院理学研究科・理学部 物理学専攻

### 学会活動

日本物理学会 学会英文誌編集委員	1999年 - 現在
日本物理教育学会 東北支部理事	2000年 - 2007年
日本物理学会 領域 8 代表	2005年 - 2006年
物性委員会 委員長	2006年 - 2009年
日本物理教育学会 東北支部長	2007年 - 2010年
日本物理学会 理事	2009年 - 2012年
日本物理学会 副会長	2010年 - 2011年
日本物理学会 会長	2011年 - 2012年
アジア太平洋物理学会 評議員	2013年 - 現在

### 専門分野

物性理論

### 研究課題

- ・ 超対称性を持つ電子系の厳密解
- ・ 超伝導と磁性の相関
- ・ 多極子自由度を持つ強相関系
- ・ 電子系の遍歴・局在複合秩序

### 学外の社会活動

東北地区高等学校物理教育研究会 世話人（小中高との連携）	1993年10月 - 2006年9月
東北地区高等学校物理教育研究会 代表（小中高との連携）	2006年10月 - 2010年8月

### 外部機関における活動

京都大学基礎物理学研究所 運営委員	1999年08月 - 2003年07月
日本学術会議 物理学研究連絡会議委員	2000年10月 - 2006年09月
科学研究費委員会 専門委員	2002年01月 - 2002年12月
東京大学物性研究所 人事協議員	2002年04月 - 2004年03月
東京大学物性研究所 協議員	2004年04月 - 2006年03月
京都大学基礎物理学研究所 運営委員	2005年08月 - 2009年07月
国立情報学研究所 客員教授	2007年04月 - 2010年03月
東京大学物性研究所 人事選考協議会委員	2010年04月 - 2012年03月
日本学術会議 連携会員	2011年10月 - 現在
高エネルギー加速器研究機構 日米事業外部評価委員会 評価委員	2013年06月 - 2014年03月
京都大学基礎物理学研究所 運営委員会 運営委員	2013年08月 - 現在
高エネルギー加速器研究機構 客員教授	2014年10月 - 2015年03月

### 学内活動

物理学専攻長	1998年4月 - 1999年3月
東北大学附属図書館商議員	2001年4月 - 2004年4月
物理学専攻長	2004年4月 - 2005年3月
北青葉山分館長	2005年4月 - 2005年10月
附属図書館副館長	2005年10月 - 2009年9月
研究教育評議員	2008年4月 - 2009年3月

### 学位授与数

博士	14人
修士	32人
学士	0人
法務博士（専門職）	0人
修士（専門職）	0人
短期大学士	0人
準学士	0人
専門士	0人
論文博士	0人

## 国際会議 主催・運営

International Conference on Strongly Correlated Electrons with Orbital Degrees of Freedom  
(2001年9月11日 -- 2001年9月14日, 日本国, 仙台市) [主催] 委員長  
COE International Symposium Exploring New Science by Bridging Particle-Matter Hierarchy  
(2004年3月5日 -- 2004年3月7日, 日本国, 仙台市) [主催] 委員長  
International Conference on "New Quantum Phenomena in Skutterudite and Related Systems"  
(2007年9月26日 -- 2007年9月30日, , Kobe) [主催] 組織委員  
Interaction and Nanostructural Effects in Low Dimensional Systems (YKIS2007)  
(2007年11月5日 -- 2007年11月30日, , Kyoto) [主催] 組織委員長  
Novel Quantum States in Condensed Matter 2011  
(2011年11月7日 -- 2011年12月9日, 日本国, 京都) [主催] Organizer of sessions for topology and strong correlations  
12th Asia Pacific Physics Conference  
(2013年7月14日 -- 2013年7月19日, 日本国, Chiba) [運営] Chairman of C.N. Yang Award Selection Committee

## 科学研究費補助金獲得実績 (文科省・学振)

一般研究 (C) [重い電子系の動的帯磁率に関する理論的研究]	1987年4月 - 1988年3月
重点領域研究 [酸化物高温超伝導体における電子間相互作用と電子・格子相互作用の協力効果]	1988年4月 - 1989年3月
重点領域研究 [強相関電子系の物性発現におけるサイズ依存性]	1990年4月 - 1993年3月
国際学術研究 [低次元および高次元凝縮系における集団的挙動の理論]	1993年4月 - 1995年3月
国際学術研究 [低次元量子多体系の理論]	1996年4月 - 1997年3月
国際学術研究 [低次元量子多体系の厳密な動力学と乱れの効果]	1998年4月 - 2000年3月
基盤研究 (C) [軌道縮退電子系における揺らぎと相転移の動力的理論]	1998年4月 - 2001年3月
特定領域研究 [電子軌道の秩序化と揺らぎによる新しい物性]	1999年10月 - 2003年3月
基盤研究 (B) [高濃度 f 電子系における伝導帯の分極と秩序化]	2003年4月 - 2007年3月
基盤研究 (C) [充填スクッテルダイト系の異常結晶場励起と混成相互作用]	2004年4月 - 2006年3月
特定領域研究 [充填スクッテルダイト化合物が示す特徴的物性の理論的解明]	2006年4月 - 2008年3月
特別研究員奨励費 [強相関電子系の多極子秩序]	2007年12月 - 2009年11月
基盤研究 (B) [f 電子系の高次多極子転移と乱れの効果]	2008年4月 - 2012年3月
新学術領域研究 [f 電子の多自由度性に創出する新奇な量子秩序と超伝導の理論]	2009年4月 - 2013年3月
基盤研究 (B) [f 電子系の局所的電子相関と非自明な秩序]	2012年4月 - 2016年3月

## その他の競争資金獲得実績

NEDO 国際共同研究 [新しいホウ化物高温強磁性体と超伝導体の機構と実用化]	2001年3月 - 2004年3月
科学技術振興調整費 [ホウ素系超伝導物質の材料化基盤研究]	2001年9月 - 2004年3月

## 著書

- 1) 半金属中の電子・正孔相関と超音波の巨大量子減衰. [共立出版, (1982)12 月]  
倉本義夫
- 2) 物性科学事典 (執筆担当部分) 825 ページ—827 ページ. [東京書籍, (1996)2 月]  
三浦登他編集
- 3) Dynamics of Heavy Electrons. [Oxford University Press, (2000)4 月]  
Y. Kuramoto, Y. Kitaoka
- 4) Strongly Correlated Electrons with Orbital Degrees of Freedom (執筆担当部分) 編集. [The Physical Society of Japan, (2002)3 月]  
K. Hirota, H. Aoki, Y. Kuramoto
- 5) Kondo effect – 40 Years after the discovery (執筆担当部分) 編集. [日本物理学会, (2005)1 月]  
H. Shiba, Y. Kuramoto
- 6) 量子力学. [朝倉書店, (2008)4 月]  
倉本義夫, 江沢潤一
- 7) Dynamics of one-dimensional quantum systems. [Cambridge University Press, (2009)8 月]  
Yoshio Kuramoto, Yusuke Kato
- 8) 量子多体物理学. [朝倉書店, (2010)1 月]  
倉本義夫
- 9) 物性物理学ハンドブック (執筆担当部分) 磁性 (20 ページ分). [朝倉書店, (2012)5 月]  
倉本義夫

## 研究論文

- 1) Theory of two-dimensional electron-hole liquids — application to layer-type semiconductors. [J. Phys. Soc. Jpn., **37**, (1974), 716]  
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- 2) The semiconductor-semimetal transition bypassing excitonic phases. [Prog. Theor. Phys. Supplement, (57), (1974), 138]  
H. Kamimura, Y. Kuramoto
- 3) Two-dimensional electron-hole metallic liquids. [Lecture Notes in Physics (Springer-Verlag, Berlin), (57), (1975), 237]  
Y. Kuramoto, H. Kamimura
- 4) Electron-hole system under strong magnetic field and first-order transition of Landau sub-level of bismuth. [Solid State Commun., **18**, (1976), 1385]  
H. Fukuyama, M. Morimoto, Y. Kuramoto
- 5) Collective excitation modes in an excitonic phase under strong magnetic fields. [J. Phys. Soc. Jpn., **42**, (1977), 1143]  
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- 6) Two-dimensional excitonic phase in strong magnetic fields. [Solid State Commun., **25**, (1978), 713]  
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- 7) Charge-density-waves of two-dimensional electrons in strong magnetic fields. [J. Phys. Soc. Jpn., **44**, (1978), 1035]

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- 8) Wigner crystal, electron chain, and charge density wave in strong magnetic fields. [J. Phys. Soc. Jpn., **44**, (1978), 1572]

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- 9) Electron-hole pair condensation and liquefaction in strong magnetic fields. [J. Phys. Soc. Jpn., **44**, (1978), 1759]

Y. Kuramoto, M. Morimoto

- 10) Classical and quantum two-dimensional Wigner crystal in strong magnetic field. [J. Phys. Soc. Jpn., **45**, (1978), 390]

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- 11) Coulomb interaction effects on cyclotron resonance in 2D systems. [Surf. Sci., **73**, (1978), 491]

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- 13) Long-wavelength excitations in the Wigner crystal in strong magnetic fields. [J. Phys. C, **12**, (1979), 2033]

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- 15) Phonon dispersion relations of graphite. [J. Phys. Soc. Jpn., **47**, (1979), 337]

M. Maeda, Y. Kuramoto, C. Horie

- 16) Effects of electron-hole correlation on ultrasonic attenuation in bismuth in strong magnetic fields. [Z. Phys. B, **35**, (1979), 233]

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- 17) Lattice dynamics of first-stage alkali metal graphite intercalation compounds. [Physica, **99B**, (1980), 430]

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- 18) Dynamical susceptibilities of intermediate valence compounds. [Z. Phys. B, **37**, (1980), 299]

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- 21) Dynamics of 4f-electrons in intermediate valence compounds. [Valence Fluctuations in Solids (L.M. Falicov et al. eds., North-Holland Publ. Co., Amsterdam), (1981), p.139]

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- 23) CDW patterns of two-dimensional electrons in strong magnetic fields. [Z. Phys. B, **44**, (1981), 301]

R.R. Gerhardts, Y. Kuramoto

- 24) CDW ground states and electron-hole symmetry of a two-dimensional electron sy. [J. Phys. Soc. Jpn., **51**, (1982), 3810]  
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- 25) Dynamical effects of electron-hole correlation and giant quantum attenuation. [Z. Phys. B, **48**, (1982), 305]  
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- 31) Theory of pressure-induced staging transitions in graphite intercalation compounds. [J. Phys. Soc. Jpn., **53**, (1984), 1380]  
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Y. Kuramoto, C. Horie
- 35) Dynamical response of intermediate-valence and Kondo systems. [J. Magn. and Magn. Mat., **47 & 48**, (1985), 329]  
Y. Kuramoto, H. Kojima
- 36) Analytic results on dynamics of the degenerate Anderson model. [J. Magn. and Magn. Mat., **52**, (1985), 122]  
Y. Kuramoto, E. Mueller-Hartmann
- 37) 4f related resonant photoemission spectra of Ce metals. [J. Magn. and Magn. Mat., **52**, (1985), 393]  
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- 38) Self-consistent perturbation theory for valence-fluctuating lattice systems. [Theory of Heavy Fermions and Valence Fluctuations (T. Kasuya and S. Saso eds., Springer-Verlag, Berlin), (1985), p.152]  
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- 39) Photoelectron and bremsstrahlung spectra of Ce metals. [Phys. Rev. B, **34**, (1986), 2231]  
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- 40) Self-consistent perturbation theory for dynamics of valence fluctuations, IV. [Z. Phys. B, **65**, (1986), 29]  
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- 45) Theory of momentum-dependent magnetic response in heavy-fermion systems. [Physica, **148B**, (1987), 80-83]  
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- 46) Cooperation of superexchange and polaron effects as pairing mechanism in high- $T_c$  superconductors. [Physica, **148B**, (1987), 246-249]  
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C.-I. Kim, Y. Kuramoto, T. Kasuya
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- 59) Exactly soluble supersymmetric t-J-type model with long-range exchange and transfer. [Phys. Rev. Lett., **67**, (1991), 1338-1341]  
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- 61) Effect of cyclic 4-spin interaction on magnetic Raman scattering. [Physica C, **185-189**, (1991), 1493-1494]  
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- 62) 銅酸化物系の多体電子状態と動的応答. [豊田研究報告, **44**, (1991), 43-48]  
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- 82) Mode-coupling effects on the quadrupolar ordering in CeB<sub>6</sub>. [Solid State Commun., **97**, (1996), 595-598]  
G. Uimin, Y. Kuramoto, N. Fukushima
- 83) Fractional exclusion statistics for the multicomponent Sutherland model. [J. Phys. Soc. Jpn., **65**, (1996), 77-86]  
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